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Attorney's Docket Number 045090/196876

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **FARAMARZ FARAHI**

Serial No.: 09/803,342

Group Art Unit: 2874

Filed: 9 March 2001

Examiner: Ullah, Akm Enayet

For: **INTEGRATED OPTICAL CIRCUITS**

**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

RESPONSE AND AMENDMENT

Amendments

Please amend the claims as follows:

Please amend claim 97 as follows:

97. (Twice amended) An optoelectronic device comprising:
a substrate having a first surface; and
at least one optical interconnect formed on the first surface of ~~the first said~~ substrate
comprising a sol-gel based material including an active region defined in the sol-gel
based material, wherein the active region comprises rare earth ions.

Please cancel claim 98.

Please amend claims 99, 100, 101 and 102 as follows:

99. (Amended) The optoelectronic device of claim 98 ~~97~~, wherein the rare earth
ions have transition lines in the about 0.2 micron to about 3.0 micron spectrum when
illuminated by at least one optical source.

100. (Amended) The optoelectronic device of claim 98 ~~97~~, wherein the rare earth
ions have transition lines in the about 1.5 micron range when illuminated by at least one
optical source.

101. (Amended) The optoelectronic device of claim 98 ~~97~~, wherein the rare earth
ions comprise a rare earth ion chosen from the group consisting of erbium, ytterbium and
neodymium ions.

102. (Amended) The optoelectronic device of claim 98 ~~97~~, wherein the rare earth
ions ~~further~~ comprise erbium and ytterbium ions.

OK TO Enter
Aullah
03/28/2005